

CLAIMS

1. A modified propylene based polymer satisfying the following (1) to (4):

(1) the content of polar group moieties resulting from a compound containing in the same molecule thereof an ethylenic double bond and a polar group is from 0.10 to 0.30 mmol/g,

(2) the intrinsic viscosity ($[\eta]_A$) measured at 135°C in tetralin is from 0.8 to 3.0 dl/g,

(3) the molecular weight distribution (M_w/M_n) is more than 2.5, and

(4) the content of components having a molecular weight (M_w) of 10000 or less is 5% or less by weight.

2. The modified propylene based polymer according to claim 1, wherein the ratio of the intrinsic viscosity ($[\eta]_A$) thereof to the intrinsic viscosity ($[\eta]_S$) of a propylene based polymer which is a starting material of the modified polymer ($[\eta]_A/[\eta]_S$) is 0.2 or more.

3. The modified propylene based polymer according to claim 1, wherein the compound containing in the same molecule thereof an ethylenic double bond and a polar group is an unsaturated carboxylic acid and/or a derivative thereof.

4. A process for producing the modified propylene based polymer according to claim 1, which comprises: blending a

propylene based polymer, a radical initiator, and a compound containing in the same molecule thereof an ethylenic double bond and a polar group; and melting and kneading the resultant at a temperature of not lower than the melting point of the propylene based polymer and less than 180°C.

5. A polyolefin resin composition comprising the following (A), (B) and (C), or the following (A), (B), (C) and (D):

- (A) a polymer synthesized from an α -olefin having 3 or more carbon atoms,
- (B) the modified propylene based polymer according to claim 1,
- (C) an organized layer inorganic compound, and
- (D) a rubbery polymer.

6. A polyolefin resin composition comprising the following (A), (B) and (C), or the following (A), (B), (C) and (D):

- (A) a polymer synthesized from an α -olefin having 3 or more carbon atoms,
- (B) the modified propylene based polymer according to claim 2,
- (C) an organized layer inorganic compound, and
- (D) a rubbery polymer.

7. A polyolefin resin composition comprising the following (A), (B) and (C), or the following (A), (B), (C) and (D):

- (A) a polymer synthesized from an α -olefin having 3 or more carbon atoms,
- (B) the modified propylene based polymer according to claim 3,

- (C) an organized layer inorganic compound, and
- (D) a rubbery polymer.

8. The polyolefin resin composition according to claim 5, wherein the melt flow rate of the α -olefin polymer (A) is from 0.1 to 200 g/10-minutes, and

the α -olefin polymer (A) is a homopolymer or a copolymer of a first α -olefin which has 3 or more carbon atoms and 0 to 20% by weight of a second α -olefin which is different from the first α -olefin and has 2 to 20 carbon atoms.

9. A process for producing the polyolefin resin composition according to claim 5, which comprises blending the (A), (B) and (C), or the (A), (B), (C) and (D); and then melting and kneading the resultant.